

WHAT IS CLAIMED IS:

- 1 1. A racket comprising:
  - 2 a frame with an elongated handle defining a longitudinal main axis;
  - 3 a head connected to the elongated handle;
  - 4 said head having parallel longitudinal sides and parallel transversal sides;
  - 5 said head having a racket face, to be spanned by strings;
  - 6 said head having a means for securing strings to the frame;
  - 7 a plurality of transversal strings, all being of substantially identical length, running
  - 8 essentially parallel to each other and generally perpendicular to said longitudinal axis and
  - 9 secured to the frame; and
  - 10 a plurality of longitudinal strings, all being of substantially identical length, running
  - 11 essentially parallel to each other and parallel to said longitudinal axis and secured to the
  - 12 frame, the transversal strings and longitudinal strings together covering the entire racket
  - 13 face.
- 14 2. The racket defined in claim 1 wherein said head and said racket face are rectangular
- 15 shaped.
- 16 3. The racket defined in claim 1 wherein the transversal sides of said racket face curve
- 17 upward with the sides remaining parallel throughout their length so that said longitudinal
- 18 strings continue to all be the same length.
- 19 4. The racket defined in claim 1 wherein the sides of said racket face curve slightly outward,
- 20 having such a curvature so that the string tension brings the sides back to the substantially
- 21 straight and parallel position.

- 1 5. The racket defined in claim 1 wherein the transversal sides of said racket face curve  
2 downward and the sides remain parallel throughout their length so that said transversal  
3 strings continue to all be the same length.
- 4 6. The racket defined in claim 1 wherein the distances between the intersection points of all  
5 of said longitudinal strings and all of said transversal strings is equal.
- 6 7. The racket defined in claim 1 wherein the width of said racket face is 12", the length of  
7 said racket face is 14.5", the length of said elongated handle is 8" and the total length of  
8 the racket is 28".
- 9 8. The racket defined in claim 3 wherein the maximum curvature of the transversal sides of  
10 said racket face is 1".
- 11 9. The racket defined in claim 4 wherein the maximum curvature of the sides of said racket  
12 face is less than 0.5".
- 13 10. The racket defined in claim 1 wherein the space between the longitudinal strings varies  
14 and the space between the transversal strings varies.
- 15 11. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal  
16 strings and said transversal strings are selected so that the vibrational frequencies of the  
17 strings are equal.
- 18 12. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal  
19 strings and said transversal strings are selected in accordance with desired ball response  
20 characteristics.
- 21 13. The racket of claim 1 wherein said racket is a tennis racket, a racquetball racket, a  
22 badminton racket or a squash racket.